

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	414/935-941.ccls. and ((stainless with steel) with interface)	US-PGPUB; USPAT	OR	ON	2006/12/11 13:08
L2	4	118/719.ccls. and ((stainless with steel) with interface)	US-PGPUB; USPAT	OR	ON	2006/12/11 13:10
L3	1	118/719.ccls. and ((stainless with steel) with (heat\$3 with transfer with reduc\$4))	US-PGPUB; USPAT	OR	ON	2006/12/11 13:10
L4	1	118/719.ccls. and ((stainless with steel) with (thermal\$3 with reduc\$4))	US-PGPUB; USPAT	OR	ON	2006/12/11 13:11
L5	8	118/719.ccls. and ((stainless with steel) same (thermal\$3 with reduc\$4))	US-PGPUB; USPAT	OR	ON	2006/12/11 13:19
L6	60	118/719.ccls. and ((stainless with steel) with (insulat\$4))	US-PGPUB; USPAT	OR	ON	2006/12/11 13:20
L7	3	118/719.ccls. and (((stainless with steel) with (insulat\$4 isolat\$4)) same (valve slit gate))	US-PGPUB; USPAT	OR	ON	2006/12/11 13:23
L8	2	156/345.ccls. and (((stainless with steel) with (insulat\$4 isolat\$4)) same (valve slit gate))	US-PGPUB; USPAT	OR	ON	2006/12/11 13:23
L9	0	(cluster with tool) and (((stainless with steel) with (insulat\$4 isolat\$4)) same (valve slit gate))	US-PGPUB; USPAT	OR	ON	2006/12/11 13:23
L10	29	(cluster ) and (((stainless with steel) with (insulat\$4 isolat\$4)) same (valve slit gate))	US-PGPUB; USPAT	OR	ON	2006/12/11 13:26
L11	3	"34"/\$.ccls. and (((stainless with steel) with (insulat\$4 isolat\$4)) same (valve slit gate))	US-PGPUB; USPAT	OR	ON	2006/12/11 13:27
L12	5	"134"/\$.ccls. and (((stainless with steel) with (insulat\$4 isolat\$4)) same (valve slit gate))	US-PGPUB; USPAT	OR	ON	2006/12/11 13:27
L13	16	"427"/\$.ccls. and (((stainless with steel) with (insulat\$4 isolat\$4)) same (valve slit gate))	US-PGPUB; USPAT	OR	ON	2006/12/11 13:30
L14	2	"216"/\$.ccls. and (((stainless with steel) with (insulat\$4 isolat\$4)) same (valve slit gate))	US-PGPUB; USPAT	OR	ON	2006/12/11 13:31
L15	25	"438"/\$.ccls. and (((stainless with steel) with (insulat\$4 isolat\$4)) same (valve slit gate))	US-PGPUB; USPAT	OR	ON	2006/12/11 13:53

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L17	93	(US-20020008534-\$ or US-20040261789-\$ or US-20030042259-\$ or US-20020195201-\$ or US-20040144315-\$ or US-20020039870-\$ or US-20030118966-\$).did. or (US-3866926-\$ or US-3900282-\$ or US-3575397-\$ or US-6045620-\$ or US-5980991-\$ or US-4427378-\$ or US-5415729-\$ or US-5381014-\$ or US-4997364-\$ or US-5031571-\$ or US-6313444-\$ or US-5256061-\$ or US-5076205-\$ or US-6284006-\$ or US-4438724-\$ or US-4243310-\$ or US-4480585-\$ or US-5151303-\$ or US-4787844-\$ or US-5172849-\$ or US-5121705-\$ or US-3759662-\$ or US-5950328-\$ or US-5834739-\$ or US-4721424-\$ or US-4622918-\$).did. or (US-6106631-\$ or US-5693288-\$ or US-5294572-\$ or US-4692115-\$ or US-5286296-\$ or US-5002009-\$ or US-4951603-\$ or US-5769629-\$ or US-3618919-\$ or US-4459823-\$ or US-5266116-\$ or US-5016561-\$ or US-6338626-\$ or US-5103745-\$ or US-5009079-\$ or US-3978815-\$ or US-5083873-\$ or US-6537011-\$ or US-4416608-\$ or US-6503079-\$ or US-5424039-\$ or US-6056294-\$ or US-5223113-\$ or US-6800172-\$ or US-5176311-\$ or US-5052489-\$ or US-4544519-\$).did. or (US-5640751-\$ or US-4110609-\$ or US-5601686-\$ or US-6602346-\$ or US-4728353-\$ or US-4256052-\$ or US-5380682-\$ or US-6210485-\$ or US-5067218-\$ or US-4657621-\$ or US-6623269-\$ or US-4502671-\$ or US-6821174-\$ or US-4395021-\$ or US-6512206-\$).did. or (US-2925062-\$).did. or (WO-2004010480-\$).did. or (JP-01319675-\$ or JP-62147726-\$ or JP-03045807-\$ or JP-2002175756-\$ or JP-02215122-\$ or JP-63137523-\$ or JP-2002090067-\$).did. or (US-20040144315-\$ or JP-62050473-\$ or DE-4011079-\$ or JP-06093342-\$ or JP-05149433-\$ or JP-07018448-\$ or EP-601532-\$ or EP-635875-\$ or US-6284006-\$).did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/11 13:34
L18	55	17 and steel	US-PGPUB; USPAT	OR	ON	2006/12/11 13:34
L19	15	17 and (steel with (insulat\$4 isolat\$4))	US-PGPUB; USPAT	OR	ON	2006/12/11 13:34
L20	7	("1485118"   "3807943"   "4397451"   "4767324"   "5052923"   "6217317").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/11 13:39
L21	1	("4767324").URPN.	USPAT	OR	ON	2006/12/11 13:49
L22	0	432/122\$.ccls. and (((stainless with steel) with (insulat\$4 isolat\$4)) same (valve slit gate))	US-PGPUB; USPAT	OR	ON	2006/12/11 13:53
L23	0	432/122.ccls. and (((stainless with steel) with (insulat\$4 isolat\$4)) same (valve slit gate))	US-PGPUB; USPAT	OR	ON	2006/12/11 13:56
L24	0	432/245.ccls. and (((stainless with steel) with (insulat\$4 isolat\$4)) same (valve slit gate))	US-PGPUB; USPAT	OR	ON	2006/12/11 13:56
L25	1	432/245.ccls. and (((stainless with steel) with (insulat\$4 isolat\$4)) )	US-PGPUB; USPAT	OR	ON	2006/12/11 13:57
L26	6	432/249.ccls. and (((stainless with steel) with (insulat\$4 isolat\$4)) )	US-PGPUB; USPAT	OR	ON	2006/12/11 13:59
L27	9	432/249.ccls. and (((steel) with (insulat\$4 isolat\$4)) )	US-PGPUB; USPAT	OR	ON	2006/12/11 13:59
L28	2	432/245.ccls. and (((steel) with (insulat\$4 isolat\$4)) )	US-PGPUB; USPAT	OR	ON	2006/12/11 15:11
L29	402	"432"\$.ccls. and (((steel) with (insulat\$4 isolat\$4)) )	US-PGPUB; USPAT	OR	ON	2006/12/11 14:02
L30	92	"432"\$.ccls. and (((steel) with (insulat\$4 isolat\$4)) ) and vacuum	US-PGPUB; USPAT	OR	ON	2006/12/11 14:02
L31	36	"432"\$.ccls. and (((steel) with (insulat\$4 isolat\$4)) ) and vacuum and (substrate workpiece semiconductor wafer)	US-PGPUB; USPAT	OR	ON	2006/12/11 14:08

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L32	602	(insulat\$4 isolat\$4).clm. and vacuum.clm. and (substrate workpiece semiconductor wafer).clm. and (transfer\$4 convey\$4 translat\$4 transport\$4 carry\$4).clm. and (heat\$3 thermal\$4).clm.	US-PGPUB; USPAT	OR	ON	2006/12/11 14:10
L33	94	(insulat\$4 isolat\$4).clm. and vacuum.clm. and (substrate workpiece semiconductor wafer).clm. and (transfer\$4 convey\$4 translat\$4 transport\$4 carry\$4).clm. and (heat\$3 thermal\$4).clm. and (plate panel interface muffle).clm. and metal\$4.clm.	US-PGPUB; USPAT	OR	ON	2006/12/11 14:10
L34	96	(insulat\$4 isolat\$4).clm. and vacuum.clm. and (substrate workpiece semiconductor wafer).clm. and (transfer\$4 convey\$4 translat\$4 transport\$4 carry\$4).clm. and (heat\$3 thermal\$4).clm. and (plate panel interfac\$4 muffle).clm. and metal\$4.clm.	US-PGPUB; USPAT	OR	ON	2006/12/11 14:10
L35	66	(insulat\$4 isolat\$4).clm. and vacuum.clm. and (substrate workpiece semiconductor wafer).clm. and (transfer\$4 convey\$4 translat\$4 transport\$4 carry\$4).clm. and (heat\$3 thermal\$4).clm. and (plate panel interfac\$4 muffle).clm. and metal\$4.clm. and (chamber reactor unit apparatus station).clm.	US-PGPUB; USPAT	OR	ON	2006/12/11 14:11
L36	33	("3982887").URPN.	USPAT	OR	ON	2006/12/11 14:15
L37	0	414/222.07.ccls. and (((steel) with (insulat\$4 isolat\$4)) )	US-PGPUB; USPAT	OR	ON	2006/12/11 15:12
L38	1	414/150.ccls. and (((steel) with (insulat\$4 isolat\$4)) )	US-PGPUB; USPAT	OR	ON	2006/12/11 15:12
L39	0	414/172.ccls. and (((steel) with (insulat\$4 isolat\$4)) )	US-PGPUB; USPAT	OR	ON	2006/12/11 15:12
L40	3	beer-emmanuel-\$.in. baumel-kenneth-\$.in.	US-PGPUB; USPAT	OR	ON	2006/12/11 15:13
L41	14	("5223113").URPN.	USPAT	OR	ON	2006/12/11 15:50
L42	11	("4473437"   "4491496"   "4816638"   "4817558"   "4838978"   "4878995"   "4886565"   "4931135"   "4943361"   "5078851"   "5085750").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/11 15:51
L43	11	("2255504"   "2926937"   "3208758"   "3370508"   "4616860"   "4685193"   "5094795").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/11 16:00
L44	5	("4685193").URPN.	USPAT	OR	ON	2006/12/11 16:03
L45	9	("5640751").URPN.	USPAT	OR	ON	2006/12/11 16:04
S1	397	(118/733).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/04/10 10:38
S2	1240	(118/719).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/04/08 12:53
S3	140	((118/733).CCLS.) and ((118/719).CCLS.)	US-PGPUB; USPAT	OR	ON	2003/04/08 12:56
S4	1978	((156/345.31) or (156/345.32) or (414/939) or (414/935) or (118/719)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/04/08 12:56
S5	0	((118/733).CCLS.) and "4."	US-PGPUB; USPAT	OR	ON	2003/04/08 12:56
S6	154	((118/733).CCLS.) and (((156/345.31) or (156/345.32) or (414/939) or (414/935) or (118/719)).CCLS.)	US-PGPUB; USPAT	OR	ON	2003/04/08 14:01
S7	13	"4622918".URPN.	USPAT	OR	ON	2003/04/08 13:12
S8	10	("3192845"   "3588176"   "3731823"   "3734567"   "3976330"   "3999806"   "4278366"   "4403002"   "4480777"   "4544446").PN.	USPAT	OR	ON	2003/04/08 13:15

## EAST Search History

S9	3	steel with isolat\$3 with chamber with vacuum	EPO; JPO; DERWENT	OR	ON	2003/04/08 14:03
S10	13	steel with isolat\$3 with chamber with vacuum	US-PGPUB; USPAT	OR	ON	2003/04/08 14:03
S11	3	(steel with isolat\$3) same (chamber with vacuum)	EPO; JPO; DERWENT	OR	ON	2003/04/08 14:04
S12	30	(steel with isolat\$3) same (chamber with vacuum)	US-PGPUB; USPAT	OR	ON	2003/04/08 14:09
S13	405	(steel with (thermal\$3 heat temperature)) same (chamber with vacuum)	US-PGPUB; USPAT	OR	ON	2003/04/08 14:11
S14	345	(steel with (seal\$3 separat\$3 )) same (chamber with vacuum)	US-PGPUB; USPAT	OR	ON	2003/04/08 15:09
S15	55	(steel with (thermal\$3 heat temperature)) same (chamber with vacuum) same (transfer\$3 transport\$3)	US-PGPUB; USPAT	OR	ON	2003/04/08 15:02
S16	15	(steel with (thermal\$3 heat temperature)) same (chamber with vacuum) same (transfer\$3 transport\$3) same (semiconductor substrate wafer)	US-PGPUB; USPAT	OR	ON	2003/04/08 15:05
S17	8	(steel with (seal\$3 separat\$3 )) same (chamber with vacuum) same (substrate wafer semiconductor)	EPO; JPO; DERWENT	OR	ON	2003/04/08 15:12
S18	49	(steel with (seal\$3 separat\$3 )) same (chamber with vacuum) same (substrate wafer semiconductor)	US-PGPUB; USPAT	OR	ON	2003/04/08 15:38
S19	22	"5121705".URPN.	USPAT	OR	ON	2003/04/08 15:35
S20	482	((thermal\$3) with (isolat\$3 separat\$3 seal\$3 close\$3 prevent\$3) with (steel) with (interface face plate surface)	US-PGPUB; USPAT	OR	ON	2003/04/08 15:41
S21	34	((thermal\$3) with (isolat\$3 separat\$3 seal\$3 close\$3 prevent\$3) with (steel) with (interface face plate surface) ) same chamber	US-PGPUB; USPAT	OR	ON	2003/04/08 15:53
S22	14	((thermal\$3) with (isolat\$3 separat\$3 seal\$3 close\$3 prevent\$3) with (steel) with (interface face plate surface) ) same chamber	EPO; JPO; DERWENT	OR	ON	2003/04/08 15:59
S23	612	((isolat\$3 separat\$3 seal\$3 close\$3 prevent\$3) with (steel) with (interface face plate surface) ) same chamber	EPO; JPO; DERWENT	OR	ON	2003/04/08 16:01
S24	717	((isolat\$3 separat\$3 seal\$3 close\$3 prevent\$3) with (steel) with (interface face plate surface) ) and (chamber apparatus) and (heat\$3 temperature thermal\$3)	EPO; JPO; DERWENT	OR	ON	2003/04/08 16:05
S25	345	((isolat\$3 separat\$3 seal\$3 close\$3 prevent\$3) with (steel) with (interface face plate surface) ) same (chamber apparatus) same (heat\$3 temperature thermal\$3)	EPO; JPO; DERWENT	OR	ON	2003/04/08 16:06
S26	120	((isolat\$3 separat\$3 seal\$3 close\$3 prevent\$3) with (steel) with (interface face plate surface) ) same (chamber apparatus) same (heat\$3 temperature thermal\$3) same vacuum	US-PGPUB; USPAT	OR	ON	2003/04/08 16:10
S27	39	((isolat\$3 separat\$3 seal\$3 close\$3 prevent\$3) with (steel) with (interface face plate surface) ) same (chamber apparatus) same (heat\$3 temperature thermal\$3) same vacuum	EPO; JPO; DERWENT	OR	ON	2003/04/08 16:15
S28	848	(34/242).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/04/08 16:27
S29	26	((34/242).CCLS.) and ((thermal\$3 heat temperature) with steel)	US-PGPUB; USPAT	OR	ON	2003/04/08 16:20
S30	67	(34/209).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/04/08 16:40
S31	1067	(34/92).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/04/08 16:40

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S32	0	(423/242).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/04/08 16:40
S33	284	(432/242).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/04/08 16:57
S34	36	((432/242).CCLS.) and (stainless with steel)	US-PGPUB; USPAT	OR	ON	2003/04/08 16:41
S35	48	((432/242).CCLS.) and (vacuum)	US-PGPUB; USPAT	OR	ON	2003/04/08 16:41
S36	20	((((432/242).CCLS.) and (stainless with steel)) and (((432/242).CCLS.) and (vacuum)))	US-PGPUB; USPAT	OR	ON	2003/04/08 16:58
S37	3	"3759662".URPN.	USPAT	OR	ON	2003/04/08 16:44
S38	264	((432/242).CCLS.) not (((432/242).CCLS.) and (stainless with steel)) and (((432/242).CCLS.) and (vacuum)))	US-PGPUB; USPAT	OR	ON	2003/04/08 17:33
S39	16	((((432/242).CCLS.) and (stainless with steel)) not (((432/242).CCLS.) and (stainless with steel)) and (((432/242).CCLS.) and (vacuum)))	US-PGPUB; USPAT	OR	ON	2003/04/08 17:22
S40	248	((432/242).CCLS.) not (((432/242).CCLS.) and (stainless with steel)) and (((432/242).CCLS.) and (vacuum))) (((432/242).CCLS.) and (stainless with steel)) not (((432/242).CCLS.) and (stainless with steel)) and (((432/242).CCLS.) and (vacuum))))	US-PGPUB; USPAT	OR	ON	2003/04/08 17:32
S41	0	((432/242).CCLS.) and cluster	US-PGPUB; USPAT	OR	ON	2003/04/08 17:33
S42	0	((432/242).CCLS.) and 118/719.ccls.	US-PGPUB; USPAT	OR	ON	2003/04/08 17:34
S43	0	((432/242).CCLS.) and (156/345.31 156/345.32)	US-PGPUB; USPAT	OR	ON	2003/04/09 15:33
S44	27	((432/242).CCLS.) and "414"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2003/04/08 17:34
S45	1	("4997364").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/04/09 14:40
S46	10	"4997364".URPN.	USPAT	OR	ON	2003/04/09 14:40
S47	1	"5512320".PN.	USPAT	OR	OFF	2003/04/09 15:19
S48	0	"6338626".pn. and steel	US-PGPUB; USPAT	OR	ON	2003/04/09 15:21
S49	1	"6338626".pn.	US-PGPUB; USPAT	OR	ON	2003/04/09 15:21
S50	42	(118/719.CCLS. 156/345.31.ccls. 156/345.32.ccls.) and ((heat\$3 temperature heat) with shield\$3 with chamber)	US-PGPUB; USPAT	OR	ON	2003/04/09 17:14
S51	2	"62147726"	JPO; DERWENT	OR	ON	2003/04/09 16:39
S52	1	("5601686").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/04/09 16:46
S53	4	"5601686".URPN.	USPAT	OR	ON	2003/04/09 16:40
S54	1	("5562800").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/04/09 16:51
S55	6	"5562800".URPN.	USPAT	OR	ON	2003/04/09 16:47
S56	756	stainless with steel with interface	US-PGPUB; USPAT	OR	ON	2003/04/09 16:51
S57	5	stainless with steel with interface with chamber with (thermal heat temperature)	US-PGPUB; USPAT	OR	ON	2003/04/09 16:53

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S58	0	"20020195201".URPN.	USPAT	OR	ON	2003/04/09 16:53
S59	1662	(isolat\$3) with chamber with ( heat\$3)	US-PGPUB; USPAT	OR	ON	2003/04/09 16:54
S60	699	(isolat\$3) with chamber with ( heat\$3)	EPO; JPO; DERWENT	OR	ON	2003/04/09 16:54
S61	8	(isolat\$3) with chamber with ( heat\$3) with (stainless steel)	EPO; JPO; DERWENT	OR	ON	2003/04/09 16:55
S62	125	(isolat\$3) with chamber with ( heat\$3) with (vacuum)	US-PGPUB; USPAT	OR	ON	2003/04/09 16:55
S63	8	(isolat\$3) with chamber with ( heat\$3) with (stainless steel)	EPO; JPO; DERWENT	OR	ON	2003/04/09 16:55
S64	17	(isolat\$3) with chamber with ( heat\$3) with (stainless steel)	US-PGPUB; USPAT	OR	ON	2003/04/09 16:55
S65	69	(isolat\$3) with chamber with ( heat\$3) with (vacuum)	EPO; JPO; DERWENT	OR	ON	2003/04/09 17:04
S66	69	(isolat\$3) with chamber with ( heat\$3) with (vacuum) with (substrate wafer vacuum)	EPO; JPO; DERWENT	OR	ON	2003/04/09 17:05
S67	8	(118/719.CCLS. 156/345.31.ccls. 156/345.32.ccls.) and ((heat\$3 temperature heat) with (improv\$3) with vacuum with chamber)	US-PGPUB; USPAT	OR	ON	2003/04/09 17:16
S68	0	(118/719.CCLS. 156/345.31.ccls. 156/345.32.ccls.) and ((heat\$3 temperature heat) with (fast3) with vacuum with chamber)	US-PGPUB; USPAT	OR	ON	2003/04/09 17:16
S69	0	(118/719.CCLS. 156/345.31.ccls. 156/345.32.ccls.) and ((heat\$3 temperature heat) with (efficient3) with vacuum with chamber)	US-PGPUB; USPAT	OR	ON	2003/04/09 17:16
S70	4	(118/719.CCLS. 156/345.31.ccls. 156/345.32.ccls.) and ((heat\$3 temperature heat) with (quick\$3) with vacuum with chamber)	US-PGPUB; USPAT	OR	ON	2003/04/09 17:17
S71	1	("5980991").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/04/09 17:19
S72	1	("5121705").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/04/09 17:21
S73	4	("4640223"   "4962726"   "4989540"   "5058526").PN.	USPAT	OR	ON	2003/04/09 17:21
S74	51	118/719.ccls. and ( heat\$3 with vacuum with (transfer\$3 transport\$3))	US-PGPUB; USPAT	OR	ON	2003/04/10 10:53
S75	39	118/719.ccls. and ( heat\$3 with vacuum with (transfer\$3 transport\$3) with chamber)	US-PGPUB; USPAT	OR	ON	2003/04/10 10:59
S76	2	((("5294572") or ("6284006"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/08/01 13:06
S79	19	bevel\$3 with surface with heat\$3 with transfer\$4	US-PGPUB; USPAT	OR	ON	2005/04/14 14:16
S80	2	bevel\$3 with surface with heat\$3 with transfer\$4 with (reduc\$4 limit\$5 insulat\$3 isolat\$3)	US-PGPUB; USPAT	OR	ON	2005/04/14 14:06
S81	11	bevel\$3 with surface with heat\$3 with transfer\$4	EPO; JPO; DERWENT	OR	ON	2005/04/14 14:12
S82	45	bevel\$3 with (reduc\$3) with surface with area with contact\$3	US-PGPUB; USPAT	OR	ON	2005/04/14 14:19
S83	4	bevel\$3 with (reduc\$3) with surface with area with contact\$3	EPO; JPO; DERWENT	OR	ON	2005/04/14 14:17
S84	1	(bevel\$3 with (reduc\$3) with surface with area with contact\$3) same (heat\$3 thermal\$4)	US-PGPUB; USPAT	OR	ON	2005/04/14 14:18

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S85	1	bevel\$3 with (reduc\$3) with surface with area with contact\$3 with known	US-PGPUB; USPAT	OR	ON	2005/04/14 14:20
S86	1	bevel\$3 with (reduc\$3) with (surface contact\$3) with area with known	US-PGPUB; USPAT	OR	ON	2005/04/14 14:20
S87	16	bevel\$3 with (surface contact\$3) with area with known	US-PGPUB; USPAT	OR	ON	2005/04/14 14:21
S88	62	heat\$3 with transfer\$4 with bevel\$3'	US-PGPUB; USPAT	OR	ON	2005/04/14 14:21
S89	62	heat\$3 with transfer\$4 with bevel\$3	US-PGPUB; USPAT	OR	ON	2005/04/14 14:51
S90	1	("3866926").PN.	US-PGPUB; USPAT	OR	OFF	2005/04/14 14:52
S91	36	wall with bevel\$3 with reduc\$4 with area	US-PGPUB; USPAT	OR	ON	2005/04/14 15:31
S92	0	kaneko.in. and 118/709.ccls.	US-PGPUB; USPAT	OR	ON	2005/04/14 15:32
S93	3	kaneko.in. and 118/719.ccls.	US-PGPUB; USPAT	OR	ON	2005/04/14 15:32
S94	2	kaneko.in. and 156/345.31.ccls.	US-PGPUB; USPAT	OR	ON	2005/04/14 15:33
S95	0	kaneko.in. and 156/345.32.ccls.	US-PGPUB; USPAT	OR	ON	2005/04/14 15:33
S96	1	("5223113").PN.	US-PGPUB; USPAT	OR	OFF	2005/04/14 15:33
S97	11	("4473437"   "4491496"   "4816638"   "4817558"   "4838978"   "4878995"   "4886565"   "4931135"   "4943361"   "5078851"   "5085750").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/14 15:53
S98	11	("5223113").URPN.	USPAT	OR	ON	2005/04/14 15:55
S99	43	("20020185067"   "20020195201"   "3618919"   "4289061"   "4438724"   "4545136"   "4948979"   "4949669"   "5076205"   "5172849"   "5223113"   "5364219"   "5445491"   "5562800"   "5592581"   "5626936"   "5640751"   "5693288"   "5746434"   "5769952"   "5820461"   "5827370"   "5997588"   "6045620"   "6089543"   "6174366"   "6178660"   "6192827"   "6193802"   "6194628"   "6197119"   "6200415"   "6255222"   "6263829"   "6280584"   "6309161"   "6347918"   "6506254"   "6541353"   "6562141"   "6602346"   "6638672"   "6673196").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/14 15:58
S100	5	("5640751").URPN.	USPAT	OR	ON	2005/04/14 16:02
S101	17687	sakamoto	US-PGPUB; USPAT	OR	ON	2005/04/14 16:31

# EAST Search History

S10 2	67	(US-20020008534-\$ or US-20020195201-\$ or US-20040261789-\$ or US-20030042259-\$).did. or (US-3575397-\$ or US-3618919-\$ or US-3759662-\$ or US-3900282-\$ or US-3978815-\$ or US-4243310-\$ or US-4395021-\$ or US-4427378-\$ or US-4438724-\$ or US-4459823-\$ or US-4480585-\$ or US-4622918-\$ or US-4692115-\$ or US-4721424-\$ or US-4787844-\$ or US-4951603-\$ or US-4997364-\$ or US-5002009-\$ or US-5016561-\$ or US-5031571-\$ or US-5103745-\$ or US-5121705-\$ or US-5151303-\$ or US-5172849-\$ or US-5256061-\$ or US-5266116-\$).did. or (US-5286296-\$ or US-5294572-\$ or US-5415729-\$ or US-5424039-\$ or US-5601686-\$ or US-5693288-\$ or US-5769629-\$ or US-5834739-\$ or US-5950328-\$ or US-6045620-\$ or US-6106631-\$ or US-6284006-\$ or US-6313444-\$ or US-6338626-\$ or US-6503079-\$ or US-4416608-\$ or US-4544519-\$ or US-5052489-\$ or US-5176311-\$ or US-5009079-\$ or US-5083873-\$ or US-5381014-\$ or US-6056294-\$ or US-6537011-\$ or US-3866926-\$ or US-5223113-\$ or US-5640751-\$).did. or (US-6602346-\$ or US-6800172-\$).did. or (US-2925062-\$).did. or (JP-01319675-\$ or JP-03045807-\$ or JP-62147726-\$).did. or (JP-62050473-\$ or DE-4011079-\$ or JP-05149433-\$ or JP-06093342-\$).did.	US-PGPUB; USPAT; USOCR; JPO; DERWENT	OR	ON	2005/04/14 16:31
S10 3	0	S101 and S102	US-PGPUB; USPAT	OR	ON	2005/04/14 16:32
S10 4	0	S101 and S102	EPO; JPO; DERWENT	OR	ON	2005/04/14 16:50
S10 5	1	("5980991").PN.	US-PGPUB; USPAT	OR	OFF	2005/04/14 17:03
S10 6	0	beer-emmanuel.in. baumel-kenneth.in.	US-PGPUB; USPAT	OR	ON	2005/04/14 17:03
S10 7	3	beer-emmanuel-\$.in. baumel-kenneth-\$.in.	US-PGPUB; USPAT	OR	ON	2006/12/11 15:13
S10 8	0	(10/736,196).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/24 15:17
S10 9	69	(US-20020008534-\$ or US-20020195201-\$ or US-20030042259-\$ or US-20040261789-\$).did. or (US-3575397-\$ or US-3618919-\$ or US-3759662-\$ or US-3866926-\$ or US-3900282-\$ or US-3978815-\$ or US-4110609-\$ or US-4243310-\$ or US-4395021-\$ or US-4416608-\$ or US-4427378-\$ or US-4438724-\$ or US-4459823-\$ or US-4480585-\$ or US-4544519-\$ or US-4622918-\$ or US-4692115-\$ or US-4721424-\$ or US-4787844-\$ or US-4951603-\$ or US-4997364-\$ or US-5002009-\$ or US-5009079-\$ or US-5016561-\$ or US-5031571-\$ or US-5052489-\$).did. or (US-5083873-\$ or US-5103745-\$ or US-5121705-\$ or US-5151303-\$ or US-5172849-\$ or US-5176311-\$ or US-5223113-\$ or US-5256061-\$ or US-5266116-\$ or US-5286296-\$ or US-5294572-\$ or US-5381014-\$ or US-5415729-\$ or US-5424039-\$ or US-5601686-\$ or US-5640751-\$ or US-5693288-\$ or US-5769629-\$ or US-5834739-\$ or US-5950328-\$ or US-5980991-\$ or US-6045620-\$ or US-6056294-\$ or US-6106631-\$ or US-6284006-\$ or US-6313444-\$ or US-6338626-\$).did. or (US-6503079-\$ or US-6537011-\$ or US-6602346-\$ or US-6800172-\$).did. or (US-2925062-\$).did. or (JP-01319675-\$ or JP-03045807-\$ or JP-62147726-\$).did. or (JP-62050473-\$ or DE-4011079-\$ or JP-05149433-\$ or JP-06093342-\$).did.	US-PGPUB; USPAT; USOCR; JPO; DERWENT	OR	ON	2005/10/24 15:18
S11 0	2	S109 and beer.in.	US-PGPUB; USPAT	OR	ON	2005/10/24 15:30
S11 1	1852	(transfer\$4 with chamber with control\$4 with heat\$3)	US-PGPUB; USPAT	OR	ON	2005/10/24 15:31



## EAST Search History

S11 2	337	((transfer\$4 with chamber with control\$4 with heat\$3 with (gate valve slit))	US-PGPUB; USPAT	OR	ON	2005/10/24 15:32
S11 3	36	((transfer\$4 with chamber with control\$4 with heat\$3 with (gate valve slit) with (isolat\$4 insulat\$4))	US-PGPUB; USPAT	OR	ON	2005/10/24 15:32
S11 4	46	((transfer\$4 convey\$4 central) with chamber with control\$4 with heat\$3 with (gate valve slit) with (isolat\$4 insulat\$4))	US-PGPUB; USPAT	OR	ON	2005/10/24 15:37
S11 5	75	((heat\$3 thermal\$4) with (insulat\$4 isolat\$4) with (wall plate device panel)) same ((transfer\$4 convey\$4) adj chamber)	US-PGPUB; USPAT	OR	ON	2005/10/24 15:38
S11 6	155	((heat\$3 thermal\$4) with (insulat\$4 isolat\$4) with (wall plate device panel)) same ((transfer\$4 convey\$4) adj (section unit chamber))	US-PGPUB; USPAT	OR	ON	2005/10/24 15:39
S11 7	8	((heat\$3 thermal\$4) with (insulat\$4 isolat\$4) with (wall plate device panel)) same ((transfer\$4 convey\$4) adj (section unit chamber)) same ((locat\$4 arrang\$4 plac\$4) with (between adjacent))	US-PGPUB; USPAT	OR	ON	2005/10/24 15:54
S11 8	52	c23c016\$.ipc. and ((transfer\$4 translat\$4 convey\$4) with (isolat\$3 inhibit\$4 insulat\$4) with (heat\$3 thermal\$4))	EPO; JPO; DERWENT	OR	ON	2005/10/24 15:57
S11 9	61	(c23f001\$.ipc. c23c016\$.ipc.) and ((transfer\$4 translat\$4 convey\$4) with (isolat\$3 inhibit\$4 insulat\$4) with (heat\$3 thermal\$4))	EPO; JPO; DERWENT	OR	ON	2005/10/24 16:12
S12 0	1	("6284006").PN.	US-PGPUB; USPAT	OR	OFF	2005/10/24 16:18
S12 1	1	("5294572").PN.	US-PGPUB; USPAT	OR	OFF	2005/10/24 16:20
S12 2	1	("5769952").PN.	US-PGPUB; USPAT	OR	OFF	2005/10/24 16:20
S12 3	14	("5135608"   "5534107"   "5580421"   "5716495"   "5782986"   "5922219"   "5954884"   "6015503"   "6065481"   "6083413"   "6107166"   "6124211"   "6165273"   "6183566").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/24 16:56
S12 4	0	("6284006").URPN.	USPAT	OR	ON	2005/10/24 16:58
S12 5	0	("6284006").URPN.	US-PGPUB; USPAT	OR	ON	2005/10/24 17:00
S12 6	56266	(insulat\$4 isolat\$4 supress\$4 control\$4) with (heat\$3 thermal\$4) with (wall plate)	US-PGPUB; USPAT	OR	ON	2005/10/24 17:04
S12 7	85	S126 and (156/345.31.ccls. 156/345.32.ccls. 204/298.23-298.29.ccls. 414/939.ccls.)	US-PGPUB; USPAT	OR	ON	2005/10/24 19:37
S12 8	242	S126 and (156/345.31.ccls. 156/345.32.ccls. 204/298.23-298.29.ccls. 414/939.ccls. 118/719.ccls. 118/718.ccls.)	US-PGPUB; USPAT	OR	ON	2005/10/24 19:32
S12 9	351	applied.as. and centura	US-PGPUB; USPAT	OR	ON	2005/10/24 19:33
S13 0	1	("5108792").PN.	US-PGPUB; USPAT	OR	OFF	2005/10/24 19:33
S13 1	90	("5108792").URPN.	USPAT	OR	ON	2005/10/24 19:34
S13 2	246	cluster and (156/345.31.ccls. 156/345.32.ccls. 204/298.23-298.29.ccls. 414/939.ccls.)	US-PGPUB; USPAT	OR	ON	2005/10/24 19:37
S13 3	6	("3404661"   "4498416"   "4643627"   "4664062"   "4923584").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/24 20:07
S13 4	2	"61224327"	EPO; JPO; DERWENT	OR	ON	2005/10/24 20:08
S13 5	19	siefering.in.	EPO; JPO; DERWENT	OR	ON	2005/10/24 20:11

## EAST Search History

S13 6	13	siefering.in.	US-PGPUB; USPAT	OR	ON	2005/10/24 20:11
S13 7	4540	(118/719.ccls. 118/715.ccls. 156/345.31.ccls. 156/345.32.ccls. 414-935-941.ccls.)	US-PGPUB; USPAT	OR	ON	2006/05/12 18:25
S13 8	0	S137 and (metal\$4 with interface with insulat\$4 with volume)	US-PGPUB; USPAT	OR	ON	2006/05/12 18:12
S13 9	3	S137 and (metal\$4 with interface with insulat\$4 )	US-PGPUB; USPAT	OR	ON	2006/05/12 18:12
S14 0	63	S137 and (metal\$4 with (temperature thermal\$4) with insulat\$4 )	US-PGPUB; USPAT	OR	ON	2006/05/12 18:23
S14 1	3	118/733.ccls. and (metal\$4 with (temperature thermal\$4) with insulat\$4 )	US-PGPUB; USPAT	OR	ON	2006/05/12 18:23
S14 2	38	118/715.ccls. and (metal\$4 with (temperature thermal\$4) with insulat\$4 )	US-PGPUB; USPAT	OR	ON	2006/05/12 18:25
S14 3	0	S142 not (S140 S141)	US-PGPUB; USPAT	OR	ON	2006/05/12 18:25
S14 4	0	S142 not (S140 )	US-PGPUB; USPAT	OR	ON	2006/05/12 18:24
S14 5	38	S142 not (S139)	US-PGPUB; USPAT	OR	ON	2006/05/12 18:24
S14 6	37	S142 not (S141)	US-PGPUB; USPAT	OR	ON	2006/05/12 18:25
S14 7	0	S142 not (S140)	US-PGPUB; USPAT	OR	ON	2006/05/12 18:25
S14 8	6435	(118/719.ccls. 118/715.ccls. 156/345.31.ccls. 156/345.32.ccls. 414/935-941.ccls.)	US-PGPUB; USPAT	OR	ON	2006/05/12 18:25
S14 9	2184	(414/935-941.ccls.)	US-PGPUB; USPAT	OR	ON	2006/05/12 18:25
S15 0	6	S149 and (metal\$4 with (temperature thermal\$4) with insulat\$4 )	US-PGPUB; USPAT	OR	ON	2006/05/12 18:26
S15 1	139	((gate slot slit) adj valve) and (metal\$4 with (temperature thermal\$4) with insulat\$4 )	US-PGPUB; USPAT	OR	ON	2006/05/12 18:27
S15 2	4	((gate slot slit) adj valve) same (metal\$4 with (temperature thermal\$4) with insulat\$4 )	US-PGPUB; USPAT	OR	ON	2006/05/12 18:30
S15 3	3	"2000298026"	EPO; JPO; DERWENT	OR	ON	2006/05/12 19:37
S15 4	2098	kaneko.in. and insulat\$4	EPO; JPO; DERWENT	OR	ON	2006/05/12 18:31
S15 5	22	kaneko.in. and insulat\$4 and valve	EPO; JPO; DERWENT	OR	ON	2006/05/12 18:35
S15 6	55	kaneko.in. and insulat\$4 and steel	EPO; JPO; DERWENT	OR	ON	2006/05/12 18:32
S15 7	0	kaneko.in. and insulat\$4 and steel and stainless and valve	EPO; JPO; DERWENT	OR	ON	2006/05/12 18:32
S15 8	17	kaneko.in. and insulat\$4 and steel and stainless	EPO; JPO; DERWENT	OR	ON	2006/05/12 18:32
S15 9	663	(stainless with steel) and (insulat\$4) and "between" and (chamber section reactor apparatus station tool)	EPO; JPO; DERWENT	OR	ON	2006/05/12 18:36
S16 0	341	(stainless with steel) and ((insulat\$4) with "between" ) and (chamber section reactor apparatus station tool)	EPO; JPO; DERWENT	OR	ON	2006/05/12 18:36
S16 1	88	(stainless with steel) and ((insulat\$4) with "between" with (temperature thermal\$4)) and (chamber section reactor apparatus station tool)	EPO; JPO; DERWENT	OR	ON	2006/05/12 18:36

## EAST Search History

S16 2	33	(stainless with steel) and ((insulat\$4) with "between" with (temperature thermal\$4) with (chamber section reactor apparatus station tool))	EPO; JPO; DERWENT	OR	ON	2006/05/12 18:41
S16 3	16	(stainless with steel) same ((insulat\$4) with "between" with (temperature thermal\$4) with (chamber section reactor apparatus station tool))	EPO; JPO; DERWENT	OR	ON	2006/05/12 18:41
S16 4	158	(stainless with steel) same ((insulat\$4) with "between" with (temperature thermal\$4) with (chamber section reactor apparatus station tool))	US-PGPUB; USPAT	OR	ON	2006/05/12 18:42
S16 5	7	("1485118"   "3807943"   "4397451"   "4767324"   "5052923"   "6217317").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/12 18:59
S16 6	4	S165 and steel	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/12 18:59
S16 7	0	("6623269").URPN.	USPAT	OR	ON	2006/05/12 19:26
S16 8	3	"2000160095"	EPO; JPO; DERWENT	OR	ON	2006/05/12 19:38